

Claims

- [c1] 1. A projector comprising:
a housing containing a directional electric light source, a lens disposed opposite the light source, a light path extending from the light source through the lens and out of the housing and to a multi-faceted reflective element, the reflective element including a housing having a plurality of reflective surfaces and means for rotating the housing which is located substantially inside of the housing.
- [c2] 2. The projector of Claim 1 further including an image medium support assembly disposed between the light source and the lens, the image medium support assembly further comprising an image window aligned in the light path, and an opening in which an image medium can be supported in the image medium support assembly.
- [c3] 3. The projector of Claim 1 further including a support member attachable to the projector comprising a mounting frame with a proximal end holding the projector and a distal end holding, in spaced apart relation to the projector, the multi-faceted reflective element.

- [c4] 4.The projector of Claim 2 further including a support member attachable to the projector comprising a mounting frame with a proximal end holding the projector and a distal end holding, in spaced apart relation to the projector, the multi-faceted reflective element.
- [c5] 5.The projector of Claim 1 wherein the multi-faceted reflective element is supported on two opposed sides.
- [c6] 6.The projector of Claim 4 further including a stand supporting the support member, the stand comprising a first bent tubular member which abuts a second similarly shaped bent tubular member, together forming a configuration with a central, double-wide portion and four flared single-wide ends.
- [c7] 7.The projector of Claim 1 further including a shield enveloping a portion of the reflective element whereby a portion of the light reflected from the reflective element is blocked from further projection.
- [c8] 8.The projector of Claim 4 further including a stand having a central hub and three members having similar lengths extending from the hub and about equally spaced around the hub.
- [c9] 9.The projector of Claim 2 wherein the reflective element

may be rotationally adjusted to different positions in order to vary the direction of movement of reflected images across a viewing surface.

- [c10] 10. A rotatable multi-faceted reflective element for use in the projection of reflected light comprising:
 - a housing including a plurality of reflective surfaces;
 - means for rotating the housing which is located inside of the housing.
- [c11] 11. The reflective element of claim 10 wherein the housing supports the plurality of reflective surfaces.
- [c12] 12. The reflective element of claim 10 wherein the housing is spherically shaped.
- [c13] 13. The reflective element of claim 10 wherein the housing is barrel shaped.
- [c14] 14. The reflective element of claim 10 wherein the means for rotating the housing comprise an electric motor, an interior surface of the housing having gear teeth, and one or more gears for transferring motion from the electric motor to the interior surface of the housing having gear teeth.
- [c15] 15. The reflective element of claim 14 further including a spindle and holder assembly wherein the electric motor

is supported by the holder and the spindle extends through the housing, whereby upon activation of the electric motor, the housing may be rotated while the spindle and holder assembly remain stationary.

- [c16] 16. The reflective element of claim 14 further including a bearing between the housing and the spindle of the spindle and holder assembly.
- [c17] 17. The reflective element if claim 14 further including a second spindle and holder assembly wherein the gears are supported by the second spindle and holder assembly and the spindle extends through the housing on a side opposite the side where the spindle from the first spindle and holder assembly extends through the housing.